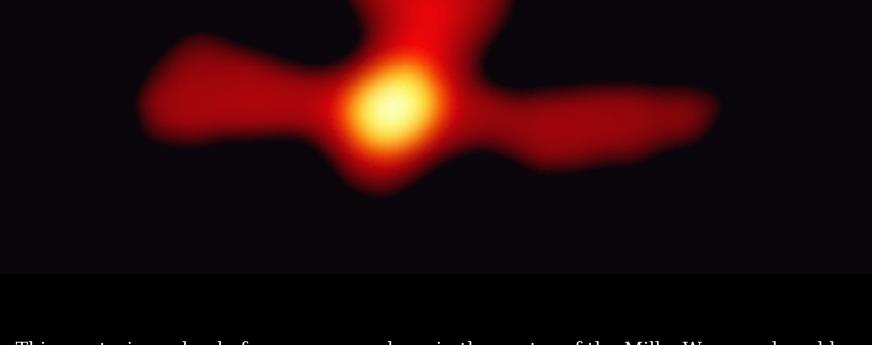
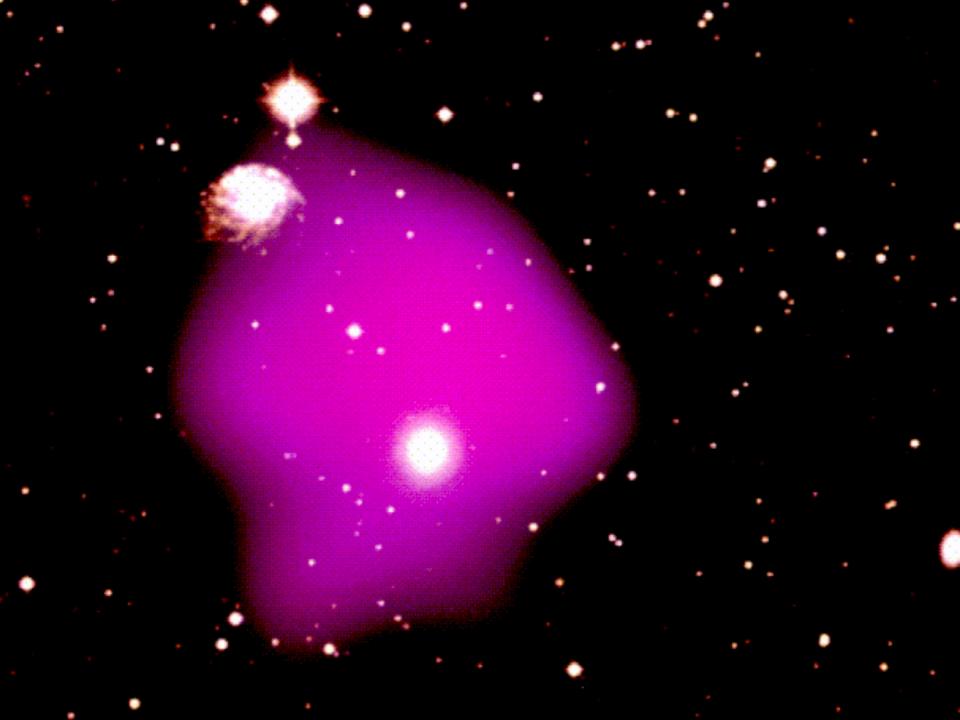


Gamma Ray Antimatter

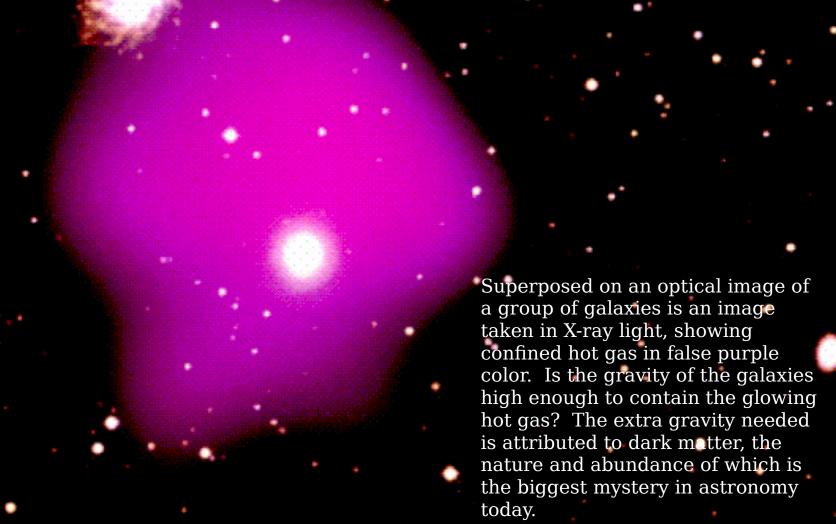
Instrument: CGRO OSSE Credit: W. Purcell (NWU)

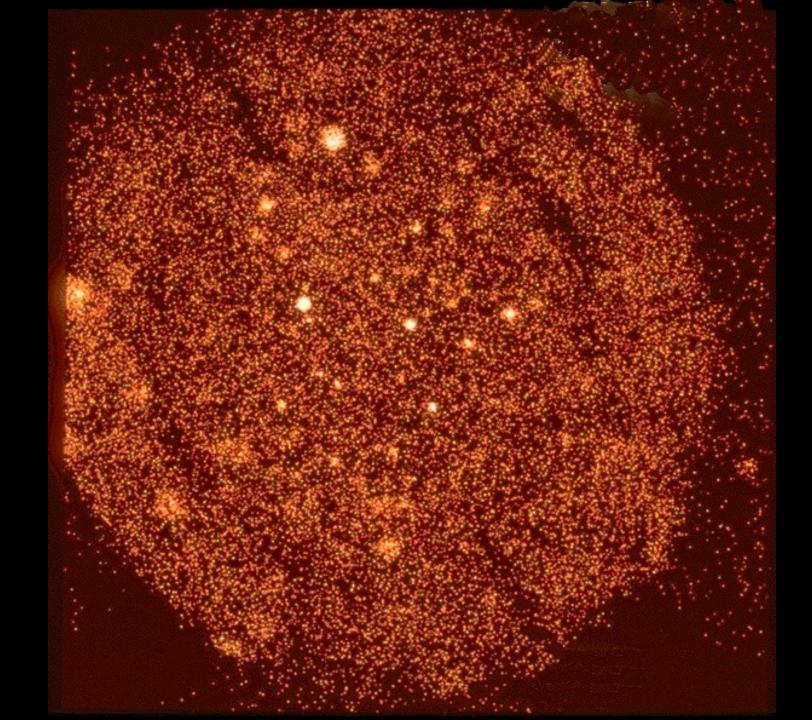


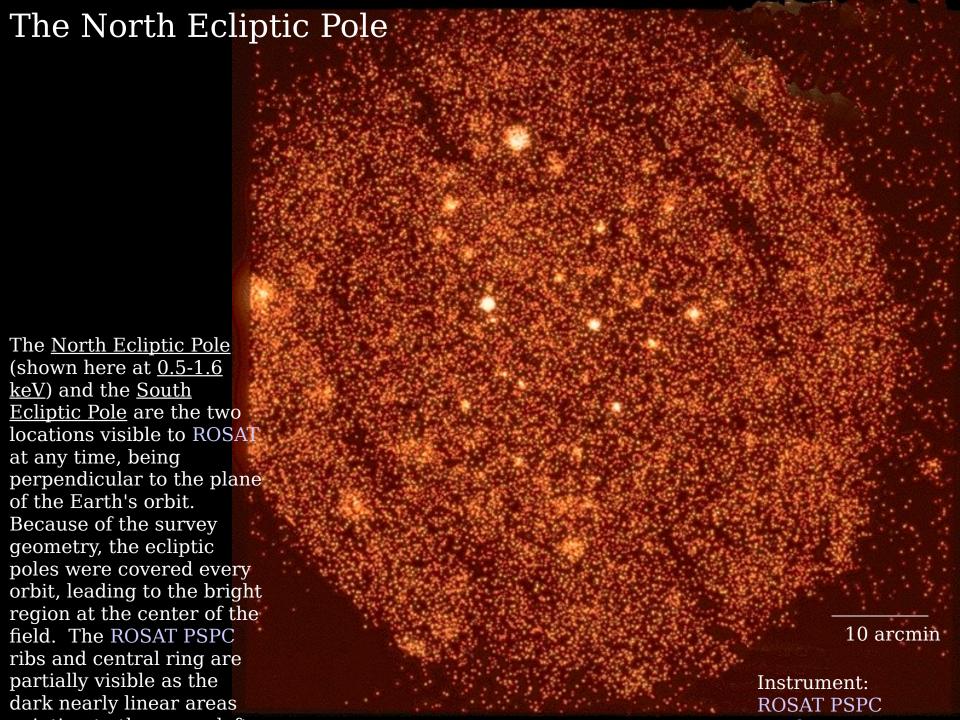
This mysterious cloud of gamma rays glows in the center of the Milky Way, produced by annihilating antimatter particles. It is probably about 4,000 light-years across and extends nearly 3,500 light-years above the galactic center. Associated with no previously known object, the cloud seems to imply that a fountain of antimatter

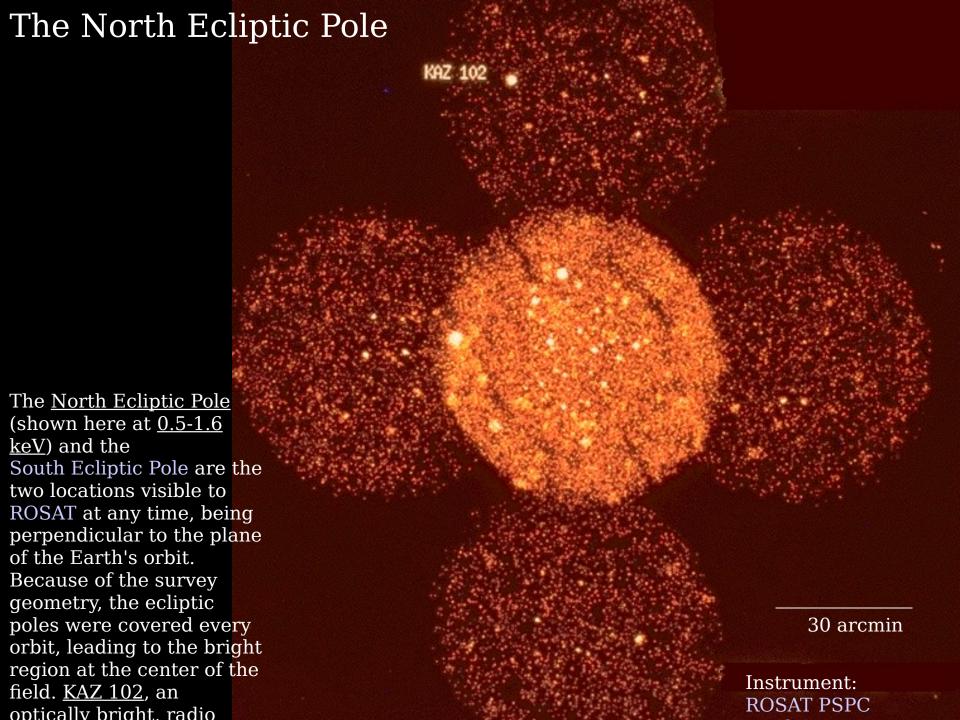


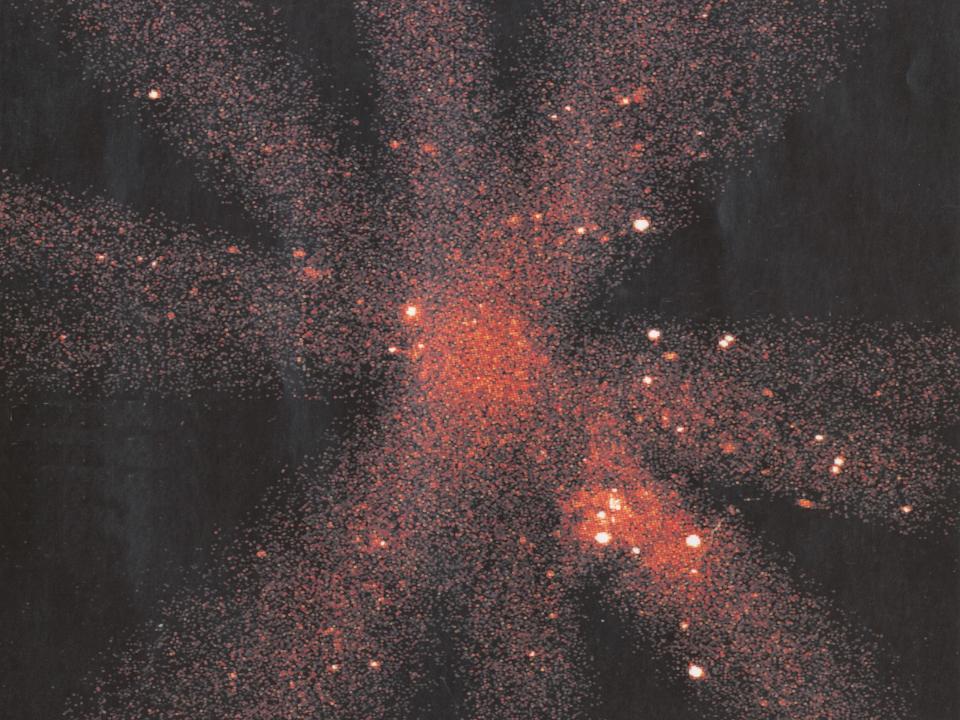
## The Search for Dark Matter

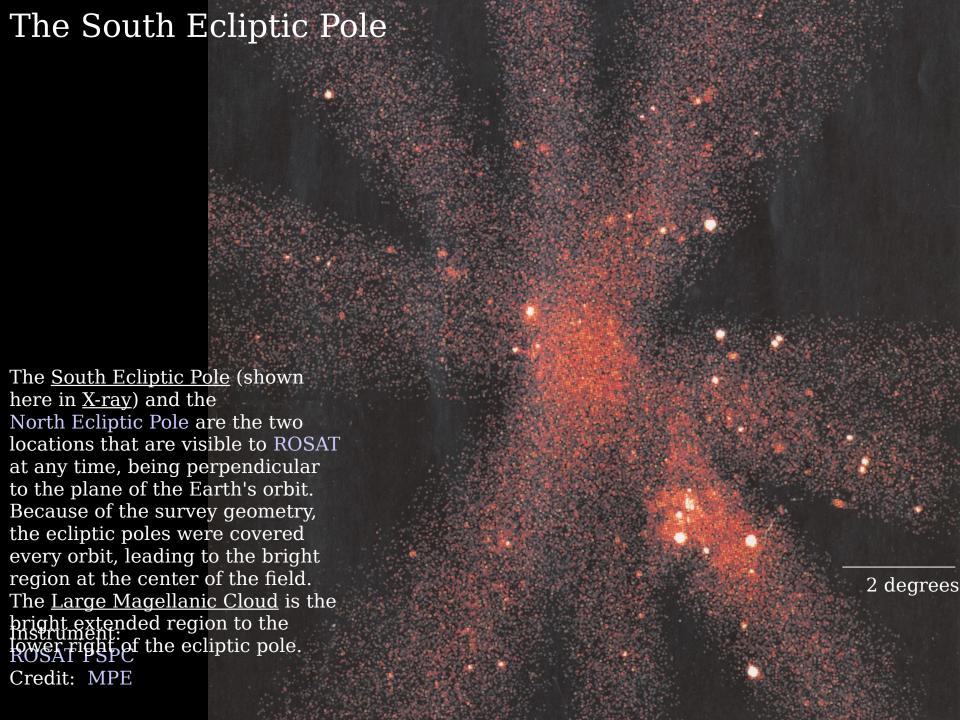


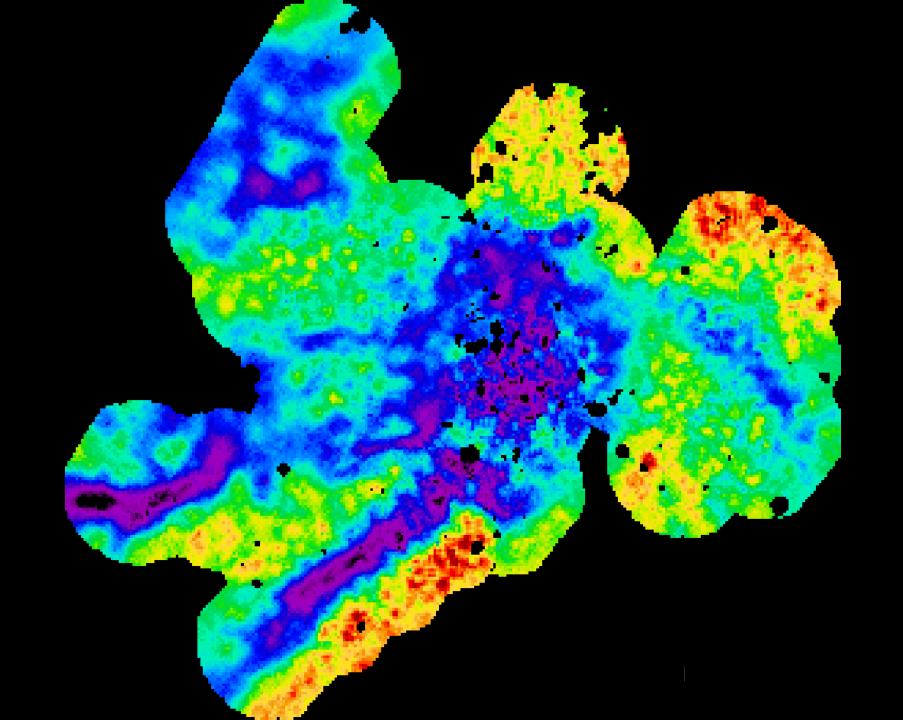


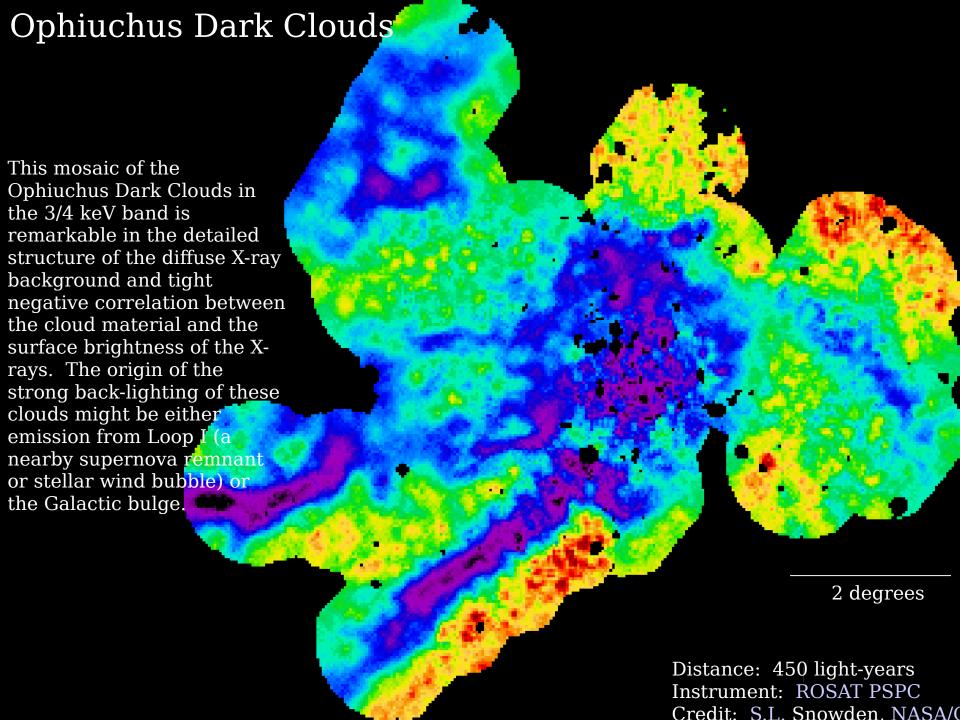


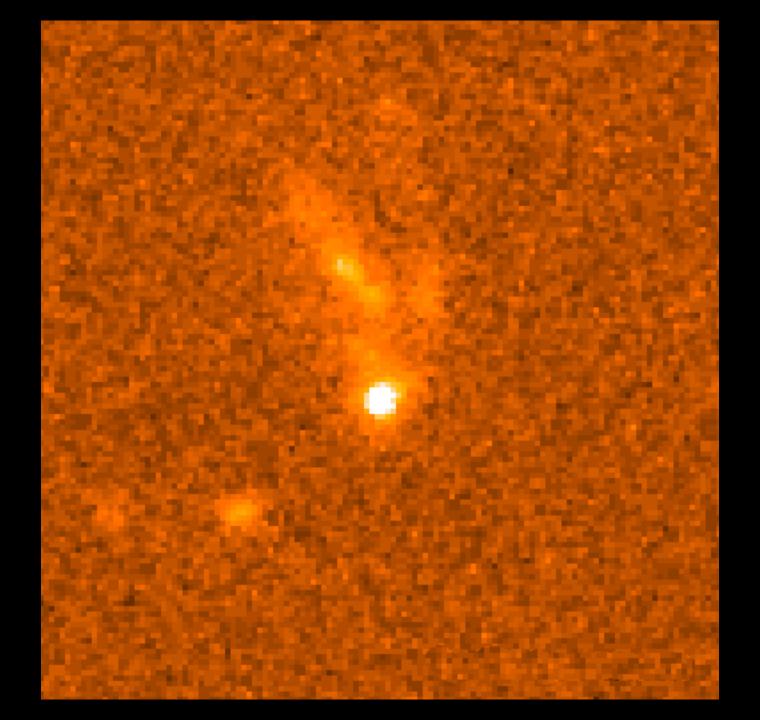






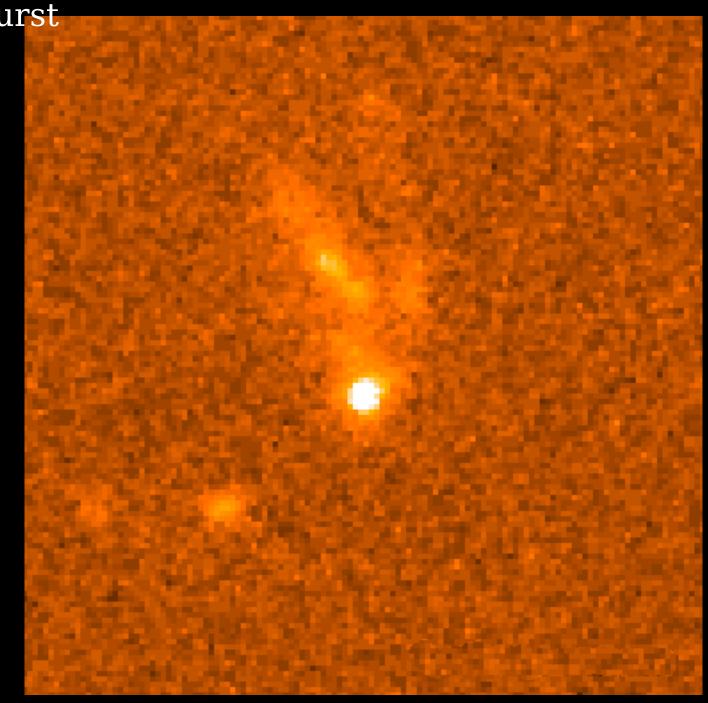


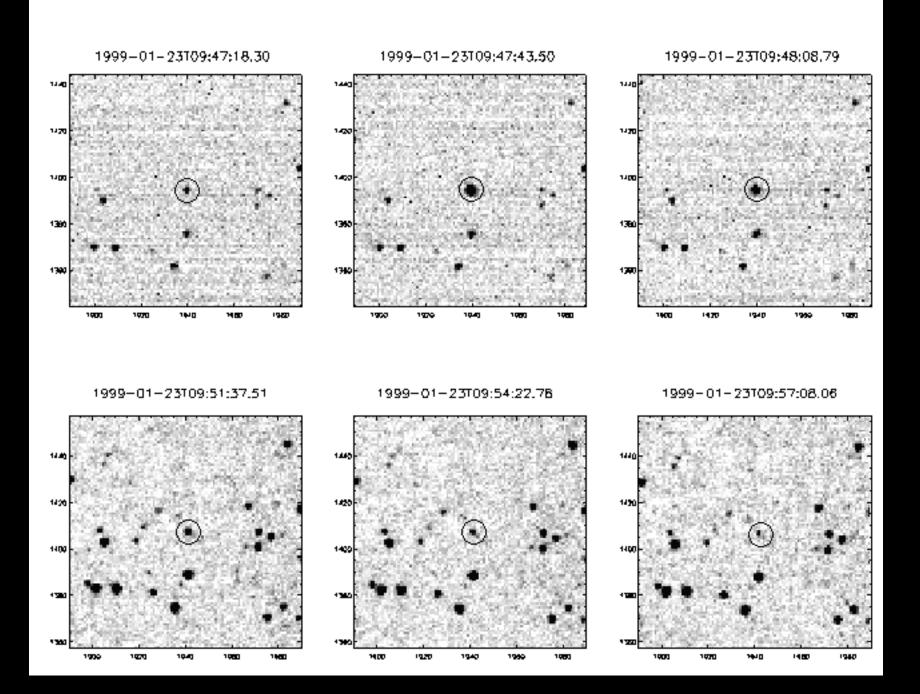




Gamma Ray Burst

Gamma ray bursts occur with no warning, last only a few seconds, and produce more energy in that short period than the entire <u>Universe</u> combined. On January 23, 1999, ROTSE captured the first-ever optical images a burst at the very moment it was going off. Other telescopes captured its afterglow, 198T chewit: heresci





## Gamma Ray Burst, Caught in Optical

On January 23, 1999, ROTSE captured first-ever optical images a gamma-ray burst at the very moment the burst was going off -- the "Holy Grail" for the hunters of these mysterious explosions, which occur with no warning, last only a few seconds, and produce more energy in that short period than the entire Universe combined.

